

PATENT Attorney Docket No. 440561/PALL

Group Art Unit: 1723

Examiner: Unassigned

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICI

In re Application of:

STEVENS et al.

Application No. 10/069,935

Filed: June 28, 2002

For: WATER TREATMENT SYSTEMS AND

METHODS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

In re Appln. of Stevens et al. Application No. 10/069,935

	37 CF	(a), (b), (c) or (d) above, but before the mailing date of a final action under R 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that vise closes prosecution in the application, and includes <i>one</i> of:
		the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	\Box	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	under and o 37 CF	the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance 37 CFR 1.311, or an action that otherwise closes prosecution in the application, n or before payment of the issue fee, and includes the Statement under R 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as th in 37 CFR 1.17(p) (see "Fees" below).
	payme contai 37 CF \$180 a NOTE: May 29	the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before ent of the issue fee, and within thirty days of receiving each item of information ned in the Information Disclosure Statement, and includes the Statement under R 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of as set forth in 37 CFR 1.17(p) (see "Fees" below). This is for original applications except applications for a design patent, filed on or after 2000, wherein a paper containing only an Information Disclosure Statement in compliance CFR 1.97 and 1.98 is being filed.
Copie	s of the	References
\boxtimes	Attach releva an En action degree	s of the references listed on the enclosed Form 1449 are enclosed herewith, and to each reference not in the English language is a concise explanation of the nee pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or glish-language abstract, or an English-language version of the search report or by a foreign patent office in a counterpart foreign application indicating the cof relevance found by the foreign office is being submitted in lieu of a concise nation of the relevance pursuant to 37 CFR 1.98(a)(3).
\boxtimes	A cop	y of the foreign search report is enclosed herewith.
	parent furnish submit The F accord Proced relied	eferences listed on the enclosed Form 1449 were previously identified in the application(s) of the present application, and copies of the references were need at that time. Accordingly, additional copies of the references are not teed herewith, so as not to burden the file with duplicate copies of references. Examiner is respectfully requested to carefully review the references in lance with the requirements set out in the Manual of Patent Examining dure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) upon for an earlier filing date under 35 USC 120 in which copies of the paces were previously furnished are set out below:

In re Appln. of Stevens et al. Application No. 10/069,935

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U.	U.S. APPLICS. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED		
1.							
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Staten	nent under 37 CFR	1.97(e)					
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.						
	Information Disclo office in a counte undersigned after r Information Disclo	hereby states that no sure Statement was cited erpart foreign patent ap naking reasonable inqui osure Statement was ore than three months ent.	d in a commun oplication, and ry, no item of known to an	ication from l, to the knoinformation of y individual	a foreign patent owledge of the contained in the designated in		
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	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.						
Fees							
	No fee is owed by the applicant(s). The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith.						
Metho	od of Payment of Fo	ees					
	Attached is a check in the amount of \$. Charge Deposit Account No. 12-1216 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)						
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In re Appln. of Stevens et al. Application No. 10/069,935

Instructions as to Overpayment

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Respectfully submitted,

Leah Robinson, Reg. No. 44,990 LEYDIG, VOIT & MAYER

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Knowp 10/069,935 Application Number Filing Date June 28, 2002 First Named Inventor **STEVENS** Group Art Unit 1723 Unassigned **Examiner Name** Attorney Docket Number 440561/PALL

		U.S. Patent Docur		J.S. PATENT DOCUMENTS		1
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
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	40	4,800,090		August	1/24/89	

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^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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			(J.S. PATENT DOCUMENTS		
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	42	4,871,559		Dunn et al.	10/3/89	
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	80	5,685,994		Johnson	11/11/97	

Examiner Signature	Date Considered	

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Application Number	10/069,935
Filing Date	June 28, 2002
First Named Inventor	STEVENS 10000
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Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
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92 **FOREIGN PATENT93 DOCUMENTS** Foreign Patent Document Translation Examiner Application or Kind Date of Office Doc. No. Name of Patente95e or Applicant Yes No*+ Initials Patent Number Code Publication 90 DE 196 14 214 Herhof Umwelttechnik G96mbH 10/16/97 X+ 91 DE 197 53 386 Shang Jianming Dr. Ing. 6/10/99 Χ+ 92 DE 263449 Ittner 9/24/12 X 93 EP 306 301 Henderson 3/8/89 EP 94 288 746 Hüls Aktiengesellschaft 11/2/88 X EP 95 313 409 Duthie, Jr. 4/26/89 96 JP 60-102157 Myojyo Foods K.K. 6/6/85 $\overline{\mathsf{x}}$ JP 97 60-118289 Giken Kogyo K.K. 6/25/85 X 98 JP 61-97102 Nippon Ita Garasu K.K. 5/15/86 X 99 NL 7502834 **AB** Ziristor 9/15/75 Х 100 UK 521,189 Hommel 10/11/39 101 UK 1,052,513 Edgerton, Germeshausen & Grier 12/21/66 102 UK 1346521 Multiblitz DR. Ing. D.A. Mannesmann 2/13/74 GmbH & Co. 103 UK 1 448 411 **Electricity Council** 9/8/76 104 UK 1 548 997 Dentsply Intl. Inc. 7/25/79 2 047 565 105 UK Asahi-Dow Ltd. 12/3/80 106 1 581 998 UK Applied Photophysics Ltd. 12/31/80

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9,935 28, 2002 First Named Inventor STEVENS STATEMENT BY APPLICANT **Group Art Unit** 1723 Unassigned **Examiner Name** (Use as many sheets as necessary) Sheet 6

Attorney Docket Number

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Examiner		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Translation		
Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.			
	107	"6.0 Ultraviolet (UV) Disinfection," Final Report, West Basin WRP Expansion No. 2 Study, pp. 53-59.			
	108	"ACPOP – Nutech's Organic Pollutant Treatment" (2 pages).			
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	124	"Welcome to the Pulsar Website!", Pulsar Environmental Remediation Technologies, Inc., ©1998, 1999, (2 pages).			
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Signature	Considered	·

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Substitute for form 1449A/B/PTO	Application Number	10/069,935
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INFORMATION DISCLOSURE	First Named Inventor	STEVENS INN'S
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		OTHER - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item			
Examiner Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.			
	127	Brinker et al., "Sol-Gel Derived Antireflective Coatings for Silicon," Solar Energy Materials, 5, 1981, pp. 159-172.			
	128	Carey et al., "Photodechlorination of PCB's in the Presence of Titanium Dioxide in Aqueous Suspensions," Bulletin of Environmental Contamination & Toxicology, Vol. 16, No. 6, 1976, pp. 697-701.			
	129	Fan, et al., "Integrated Chemical Systems: Photocatalysis at TiO₂ Incorporated into Nafion and Clay," J. Phys.Chem., 1985, 89, pp. 4418-4420.			
	130	Glaskin, Max, "Kill the Bugs to Cure the Building," New Scientist, Technology, March 11, 1995.			
	131	Hsiao et al., "Heterogeneous Photocatalysis: Degradation of Dilute Solutions of Dichloromethane (CH₂Cl₂), Chloroform (CHCl₃), and Carbon Tetrachloride (CCl₄) with Illuminated TiO2 Photocatalyst," Journal of Catalysis, 1983, 82, pp. 418-423.			
	132	Ireland et al., "Inactivation of <i>Escherichia coli</i> by Titanium Dioxide Photocatalytic Oxidation," Applied and Environmental Microbiology, May 1993, Vol. 59, No. 5, pp. 1668-1670.			
	133	Johnson, Tom, "Flashblast – the light that cleans," Popular Science, July 1982, pp. 82-84.			
	134	Mallevialle et al., "Configuration," Water Treatment Membrane Processes, pp. 9.4-9.5.			
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	136	Marshall, Tom, "Deadly Pulses," Water Environment & Technology, April 1999, pp. 37-41.			
	137	Marshall, Tom, "Emerging UV Disinfection Technology – Pulsed UV (PUV)," Water Environment & Technology, April 1999, (9 pages).			
	138	Matthews, Ralph W., "Carbon Dioxide Formation from Organic Solutes in Aqueous Suspensions of Ultraviolet-Irradiated TiO₂. Effect of Solute Concentration," Aust. J. Chem., 1987, 40, pp. 667-75.			
	139	Matthews, Ralph W., "Hydroxylation Reactions Induced by Near-ultraviolet Photolysis of Aqueous Titanium Dioxide Suspensions," J. Chem. Soc., Faraday Trans. 1, 1984, 80, pp. 457-471.			
	140	Matthews, Ralph W., "Photooxidation of Organic Impurities in Water Using Thin Films of Titanium Dioxide," J. Phys. Chem., 1987, 91, pp. 3328-3333.			
	141	Matthews, Ralph W., "Photo-Oxidation of Organic Material in Aqueous Suspensions of Titanium Dioxide," 1986, Vol. 20, No. 5, pp. 569-578.			
	142	Matthews, Ralph W., "Solar-Electric Water Purification Using Photocatalytic Oxidation with TiO2 as a Stationary Phase," Solar Energy, 1987, Vol. 38, No. 6, pp. 405-413.			
	143	Pall Hollow Fiber Filtration Systems, Selection Guide Element Data Sheet WP-1, Pall Corporation, @1998.			
	144	Pettit et al., "Use of Sol-Gel Thin Films in Solar Energy Applications," Solar Energy Materials, 14, 1986, pp. 269-287.			
	145	Rentschler et al., "Bactericidal Effect of Ultraviolet Radiation," Research Dept., Westinghouse Lamp Division, Bloomfield, N.J., 1940, pp. 745-774.			

			
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				First Named Inventor	STEVENS
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		OTHER - NON PATENT LITERATURE DOCUMENTS	,	
Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.		slation No*
	146	Sabate et al., "A Kinetic Study of the Photocatalytic Degradation of 3-Chlorosalicylic Acid over TiO ₂ Membranes Supported on Glass," Journal of Catalysis, 127, 1991, pp. 167-177.		
	147	Saito et al., "Mode of Photocatalytic Bactericidal Action of Powdered Semiconductor TiO ₂ on Mutans Streptococci, J. Photochem, Photobiol. B: Biol., 14, 1992, pp. 369-379.		
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	151	University of Waterloo Daily Bulletin, August 10, 1998, pp. 1-3.		t —
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Examiner Signature Date Considered

A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
 An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).